

ABSTRACT OF THE DISCLOSURE

The invention discloses a method and device for wavelength locking and spectrum monitoring. A grating is used to divide a portion of input optical signals into a plurality of light beams that further form distinct response curves after passing through an etalon. The distinct response curves are transduced into electrical signals by photo detectors to generate a feedback signal calculated by a servo system so as to lock the center wavelength and monitor the full width at half maximum (FWHM) of the input optical signals.